



Subject card

Subject name and code	, PG_00066726						
Field of study	Spatial Development						
Date of commencement of studies	February 2025	Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of History of Architecture and Conservation of Monuments -> Faculty of Architecture						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Anna Orchowska					
	Teachers	dr inż. Krzysztof Nowicki dr inż. arch. Anna Orchowska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	40.0	0.0	40
	E-learning hours included: 0.0						
	Additional information: Individual work of a (student) project team under the supervision of the project supervisor: Students within the project team carry out tasks in accordance with a previously defined research or project plan, developed collaboratively with the project supervisor. Each team member has a clearly defined role and scope of responsibilities, allowing for the effective use of diverse skills and competencies. The teams work is organized and systematic, with regular consultations with the project supervisor providing substantive support, progress monitoring, and guidance for resolving encountered issues. Specialized seminars with experts: During the implementation of the project, seminars led by experts in the relevant field are organized to expand students knowledge of key issues related to the projects subject matter. These seminars enable participants to familiarize themselves with current research, modern tools and methods, as well as practical aspects of project implementation. Experts, by sharing their experience and knowledge, inspire students to pursue innovative solutions and assist in developing critical thinking skills.						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study	SUM	
	Number of study hours	40	0.0		0.0	40	
Subject objectives	The objective of the course is to develop the ability to identify, analyze, and address complex problems related to key objects and phenomena characteristic of the studied field. Students deepen their theoretical and practical knowledge, learn to apply appropriate analytical and design methods, and enhance their teamwork skills in research settings. The course aims to prepare students for both independent and collaborative work in solving scientific and practical challenges while fostering the ability to present research findings effectively.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_K101] acknowledges the importance of knowledge related to the field of study in solving cognitive and practical problems, critically assessing the information obtained	The student is able to formulate a complex research problem and plan its resolution by selecting appropriate research methods and tools. They actively collaborate within a research team, assuming the roles of leader or team member, effectively communicating and completing tasks, leading to the development of innovative solutions and the presentation of results in a scientifically acceptable form.	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills
	[K7_W101] is able to make an in-depth identification of key objects and phenomena related to the field of study, as well as theories that describe them and applicable analytical and design methods	The student is able to identify key objects and phenomena related to the subject matter of the course and analyze them in depth using appropriate theories and analytical or design methods. They demonstrate the ability to apply acquired knowledge in practice, proposing solutions tailored to the specifics of the studied issue.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge
	[K7_U101] is able to formulate complex research problems and adopts appropriate methods, obtaining innovative solutions, cooperating with other people, both as a leader and a team member	The student is able to identify and precisely formulate a complex research problem, plan actions leading to its resolution, and select appropriate research methods and tools. They demonstrate the ability to effectively collaborate within a team, assuming the role of leader or team member, and develop innovative solutions, presenting them in a form consistent with scientific and/or practical requirements.	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
Subject contents	<p>According to the project requirements defined by the project supervisor.</p> <p>The course begins with an introduction to the research project, during which the objectives, assumptions, and structure of the project team are discussed, including the division of roles and responsibilities. Students are introduced to the principles of research methodology and the selection of appropriate research methods and tools tailored to the specifics of the project. Subsequently, the analysis of the research problem is conducted, which includes identifying and precisely formulating the issue, analyzing literature and secondary sources, and examining the theoretical and practical context.</p> <p>The next stage involves planning and organizing the teams work, including the development of an action schedule and task distribution using project management tools. As part of the research activities, field studies, laboratory experiments, or computer simulations are carried out, as well as data collection, processing, and analysis, with a focus on testing research hypotheses. During the projects implementation, students participate in specialized seminars and workshops with experts to expand their knowledge and refine the proposed solutions.</p> <p>A crucial element is the creation of innovative solutions, which includes generating concepts based on research results, prototyping, and developing strategies for implementing the outcomes. At the conclusion of the project, students prepare a final report and present their findings in multimedia formats, such as presentations, scientific posters, or 3D visualizations. An essential component also involves publishing the results in a scientific journal or presenting them at a conference.</p> <p>The project concludes with an evaluation (research report/scientific article), which includes assessing the achievement of objectives, reflecting on the effectiveness of the methods used and team organization, and drawing conclusions and recommendations for future projects.</p>		

Prerequisites and co-requisites	<p>Students are expected to have a basic knowledge of research and analytical methods relevant to their field of study, teamwork skills, and effective interpersonal communication. A fundamental understanding of tools and software supporting the research process, such as CAD software, statistical tools, or project management platforms, is essential. Critical analysis of literature and data, as well as familiarity with the principles of writing scientific reports and presenting results, are also required.</p> <p>Additionally, students should demonstrate openness to interdisciplinary collaboration and consultations with experts, a willingness to participate in specialized seminars and workshops, and initiative in independently addressing research problems. An interest in developing innovative solutions within the context of the project and proficiency in English at a level that allows for the use of scientific literature and presenting findings on an international platform will be considered additional advantages.</p>																	
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="459 421 786 454">Subject passing criteria</th> <th data-bbox="802 421 1145 454">Passing threshold</th> <th data-bbox="1161 421 1487 454">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="459 459 786 488">Poster (PL + EN)</td> <td data-bbox="802 459 1145 488">70.0%</td> <td data-bbox="1161 459 1487 488">25.0%</td> </tr> <tr> <td data-bbox="459 492 786 521">Attendance at seminars</td> <td data-bbox="802 492 1145 521">50.0%</td> <td data-bbox="1161 492 1487 521">25.0%</td> </tr> <tr> <td data-bbox="459 526 786 555">Project schedule</td> <td data-bbox="802 526 1145 555">70.0%</td> <td data-bbox="1161 526 1487 555">25.0%</td> </tr> <tr> <td data-bbox="459 560 786 591">Written report</td> <td data-bbox="802 560 1145 591">70.0%</td> <td data-bbox="1161 560 1487 591">25.0%</td> </tr> </tbody> </table>	Subject passing criteria	Passing threshold	Percentage of the final grade	Poster (PL + EN)	70.0%	25.0%	Attendance at seminars	50.0%	25.0%	Project schedule	70.0%	25.0%	Written report	70.0%	25.0%		
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Example issues/ example questions/ tasks being completed	According to the recommendations of the project supervisor.																	
Work placement	Not applicable																	

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